FLT ID: N960928 FM: KMCF KMCF TO: FLT NO: BLK IN: ATA: ETD: BLK DUT: 16:292 ATD: ETE: BLK TIME: 21387 FLT TIME: : SPONSOR ORG: AOC PROGRAM: PURPOSE: TEST FLT #1 (TET) ORD PERSONNEL AC LAYER SYS ENG DU GRANRUT CP 1 AXSON DATA SYS PRADAS-BERG-NES! NAV RADAR 1 -FE BT/ODW FOLDSTEIN RADIO CLD PHYS FD AMITANO CZYZY.K. DOPPLER PARTICIPATING SCIENTIST/VISITORS/0R0 LAST, FIRST NAME ACTIVITY ON A/C REFILIATION 31 FOCK DROPSONDE NCAR ι. CHAMBER LAIN 11 NRAR 4. GRIFFIN DREEF HAPS HRD FRANKLIN HRD HAPS SAFR PILOT FULFSTREAM KETSON AOC MECH PROPOSED-ACTUAL MISSION-REMARKS (RECCO, FIXES, STORM, PENET, NHOP #) ON GROUND QCIM Close & Zero iaczM -4 mB 159

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NOAA FORM 59-4

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Aircraft Operations Center P.O. Box 6829 MacDill AFB, FL 33608-0829

AOC1:ABD

September 27, 1996

MEMORANDUM FOR:	All Gulfstream-IVSP Participants
FROM:	A. Barry Damiano
SUBJECT:	First Gulfstream-IVSP Calibration Flight

The first test flight (tentatively scheduled during the last three weeks of September) should be considered a "touchy feely" flight. It should allow for individuals to become familiar with their own station settings as well as the entire layout of the aircraft. This flight will be relatively short in duration (approximately 4 hours) and will consist of the following activities:

- 1) Block out from Hangar 5 at 1145 local time.
- After take-off climb to 20000 feet pressure altitude (PA) and head to a point over land east of NWS Ruskin (27° 43' N 82° 27' W). If ATC will not allow that then we head west offshore west of NWS Ruskin.

3) Fly three (3) three minute legs varying indicated airspeed...180, 210 and 240 knots. The legs are not dependent upon wind direction. After the 210 indicated airspeed leg is completed, a yaw (side to side) maneuver will be performed varying heading by 15-20 degrees and minimizing excursions in roll. After the yaw maneuver, a pitch maneuver varying pitch ± 5 degrees will be performed. After the pitch maneuver, increase indicated airspeed to 240 knots.

- 4) Upon completion of the 240 indicated airspeed leg at 20000 feet PA, the aircraft will climb to 25000 feet PA and perform the three (3) three minute legs varying indicated airspeed...180, 210 and 240 knots.
- 5) Upon completion of the 240 indicated airspeed leg at 25000 feet PA, the aircraft will climb to 30000 feet PA and perform the three (3) three minute legs varying indicated airspeed...180, 210 and 240 knots.

- 6) Upon completion of the last leg at 30000 feet PA, the aircraft will climb to 35000 feet PA and perform the three (3) three minute legs varying indicated airspeed...180, 210 and 240 knots.
- 7) Upon completion of the 240 indicated airspeed leg at 35000 feet PA, the aircraft will climb to 40000 feet PA and perform the three (3) three minute legs varying indicated airspeed...180, 210 and 240 knots. At the beginning of the 210 indicated airspeed, a GPS sonde will be launched. This will coincide approximately with a radiosonde launch from NWS Ruskin. The purpose of deploying sondes is to exercise the AVAPS system and test the communication link by transmitting sonde data through the SATCOM system. After the 210 indicated airspeed leg is completed, a yaw (side to side) maneuver will be performed varying heading by 15-20 degrees and minimizing excursions in roll. After the yaw maneuver, a pitch maneuver varying pitch ± 5 degrees will be performed. After the three minute leg at 240 knots is completed climb to 45000 feet PA.
- 8) At 45000 feet PA do the three (3) three minute legs varying indicated airspeed...180, 210 and 240 knots. Near the end of the 210 indicated airspeed run, a GPS dropsonde will be launched as the jet heads west away from the coast and increases indicated airspeed to 240 knots). After the three minute 240 knot leg is completed, the jet will slow to .80 Mach. After loss of the sonde signal, the jet will reverse heading. As the jet nears the coast, airspeed will decrease to .75 Mach, and another GPS sonde will be deployed. The jet will continue on a eastbound heading until the sonde signal is lost. The jet will reverse heading and head toward NWS Ruskin. Over or near NWS Ruskin a GPS sonde will be launched and after a few minutes the jet will begin a spiral descent at a rate of 1500 feet per minute. The descent will continue to 10000 feet PA.
 - 9) After reaching 10000 feet PA, the jet will commence three (3) left turn circles then three (3) right turn circles at a 25° roll angle.
 - 10) Upon completion of the circles the aircraft will return to MacDill AFB.

LEPT SPIRAL